

DAFTAR PUSTAKA

- Aakko-Saksa, P. T., Lehtoranta, K., Kuittinen, N., Järvinen, A., Jalkanen, J.-P., Johnson, K., Jung, H., Ntziachristos, L., Gagné, S., & Takahashi, C. (2023). Reduction in greenhouse gas and other emissions from ship engines: Current trends and future options. *Progress in Energy and Combustion Science*, 94, 101055.
- Aaron. (2021). *R717 Refrigerant Grade Liquid Anhydrous Ammonia Gas*. <https://indonesian.industrial-ammonia.com/quality-10335624-r717-refrigerant-grade-liquid-anhydrous-ammonia-gas>
- Ajoko, T. J. (2017). *Performance Characteristics of Refrigerants*.
- Alfida, P. (2016). *Analisis Kelayakan Finansial Investasi Tugboat Baru pada PT. Muara Kembang Di Samarinda*. Fakultas Ekonomi Universitas Gunadarma.
- Arya Khairullah Akbar. (2024). *EXERGY DAN EFISIENSI TERMAL PADA SISTEM KAPAL HZ LNG CARRIER TERHADAP VARIASI SUHU DAN TEKANAN FLUIDA KERJA KARBON DIOKSIDA, R290, DAN R717*. UPN Veteran Jakarta.
- Bamigbetan, O., Eikevik, T. M., Neksa, P., Bantle, M., & Schlemminger, C. (2018). Theoretical analysis of suitable fluids for high temperature heat pumps up to 125 C heat delivery. *International Journal of Refrigeration*, 92, 185–195.
- Baresa, S., Bogdan, S., & Ivanovic, Z. (2016). Capital investments and financial profitability. *UTMS Journal of Economics*, 7(1), 49–59.
- Brown, J. S., Zilio, C., & Cavallini, A. (2009). Estimations of the thermodynamic and transport properties of R-1234yf using a cubic equation of state and group contribution methods. *Proc. Conf. on Thermophysical Properties and Transfer Processes of Refrigerants*, 400.
- Budiyanto, M. A., & Nawara, R. (2020). The optimization of exergoenvironmental factors in the combined gas turbine cycle and carbon dioxide cascade to

- generate power in LNG tanker ship. *Energy Conversion and Management*, 205, 112468.
- Budiyanto, M. A., Putra, G. L., Riadi, A., Andika, R., Zidane, S. A., Muhammad, A. H., & Theotokatos, G. (2024). Techno-Economic Analysis of Combined Gas and Steam Propulsion System of Liquefied Natural Gas Carrier. *Energies*, 17(6), 1415.
- Burel, F., Taccani, R., & Zuliani, N. (2013). Improving sustainability of maritime transport through utilization of Liquefied Natural Gas (LNG) for propulsion. *Energy*, 57, 412–420.
- Chan, W. L., & Chiong, M. S. (2023). A performance study of R717 and R22 as the working fluid for OTEC plant. *IOP Conference Series: Earth and Environmental Science*, 1143(1), 012018.
- Chaudhary, T. N., Shah, F. H., Farooq, M., & Qamar, A. (2016). ENHANCEMENT IN OVERALL THERMAL EFFICIENCY OF A GAS TURBINE POWER PLANT USING COMBINED CYCLE SYSTEM. *JOURNAL OF FACULTY OF ENGINEERING & TECHNOLOGY*, 23(2), 49–57.
- Dirjen Migas ESDM. (2023, November). *Total Nilai Ekspor LNG 6,6 M, Indonesia Optimis Jadi Key Player LNG*. Dirjen Migas ESDM. <https://migas.esdm.go.id/post/total-nilai-ekspor-lng-6-6-m-indonesia-optimis-sebagai-key-player-lng>
- Fernández, I. A., Gómez, M. R., Gómez, J. R., & Insua, Á. B. (2017). Review of propulsion systems on LNG carriers. *Renewable and Sustainable Energy Reviews*, 67, 1395–1411.
- Gabrielli, P., Sansavini, G., Singh, S., Garcia, L. S., Jacquemoud, E., & Jenny, P. (2022). Off-Design Modeling and Operational Optimization of Trans-Critical Carbon Dioxide Heat Pumps. *Journal of Engineering for Gas Turbines and Power*, 144(10), 101004.

- GAI, D., LIU, Z., LIU, W., & YANG, J. (2009). Characteristics of temperature oscillation in miniature \square loop heat pipe with flat evaporator. *CIESC Journal*, 60(6), 1390.
- Hadid, M., & Wibisono, P. (2022). Analisis Biaya Operasional Kapal untuk Penentuan Tarif Transportasi Sungai dan Pesisir di Kabupaten Paser, Kalimantan Timur. *Jurnal Aplikasi Teknik Sipil*, 20(4), 431–438.
- Hasan Basri Siregar. (2015). *Ekonomi Teknik* (pp. 18–19). Graha Ilmu.
- Hu, Z., Jiang, H., Zhuge, W., Qian, Y., & Zhang, Y. (2024). A review of research on turbines for supercritical carbon dioxide power systems. *Journal of Physics: Conference Series*, 2707(1), 012101.
- Hudita A. R. Lubis. (2024). *Net Present Value (NPV): Definisi, Rumus & Cara Menghitungnya*. Dibimbing.Id.
- Indraloka Gusthia. (2023, August 15). *Motor Bakar Pada Pesawat Tenaga dan Produksi*. <https://www.garudasystrain.co.id/>.
- Jankowski, M., Borsukiewicz, A., & Klonowicz, P. (2019). Selection of working medium for low-temperature ORC based on thermodynamic, economic and environmental criteria. *IOP Conference Series: Earth and Environmental Science*, 214(1), 012101.
- Kumar, N., Mohanta, D. K., Kispotta, E., Hansda, D., & Reddy, M. J. B. (2017). Efficiency enhancement of thermal power plants using refrigerant-R600a in condenser section. *2017 International Conference on Innovations in Green Energy and Healthcare Technologies (IGEHT)*, 1–6.
- Kurniawati, H. A., Aryawan, W. D., & Baidowi, A. (2016). LONG-TERM FSO/FPSO CHARTER RATE ESTIMATION. In *KAPAL* (Vol. 13, Issue 1).
- Lee, D.-H., Ha, M.-K., Kim, S.-Y., & Shin, S.-C. (2014). Research of design challenges and new technologies for floating LNG. *International Journal of Naval Architecture and Ocean Engineering*, 6(2), 307–322.

- Li, G., Jin, T., Xu, R., & Lv, Z. (2023). Comparative Investigation on the Thermophysical Property and System Performance of R1234yf. *Energies*, 16(13), 5033.
- Mandra Jasmina Ovcina. (2023, September 5). *Design of world's largest LNG carrier wins blessing from classification majors*. Offshore Energy.
- Niculescu, F., Borzea, C., Savescu, A., Mitru, A., & Vasile, M. L. (2020). *Automation and Electronic Control of Marine Gas Turbine Engine for Ship Revamp*.
- Open Jica Report. (2004). Cost Estimation of the New Power Plant for Construction and Operation. In *Japan International Cooperation Agency (JICA)*. https://openjicareport.jica.go.jp/pdf/11750742_19.pdf
- Ostapyuk, Y., Aleksentsev, A., & Novikova, Y. (2024). Thermodynamic Calculation of the Working Process of the Gas-Dynamically Decoupled Compressor and Turbine. *2024 International Ural Conference on Electrical Power Engineering (UralCon)*, 6–10.
- Peng, X., Huang, L., Wu, L., Zhou, C., Wen, Y., Chen, H., & Xiao, C. (2021). Remote detection sulfur content in fuel oil used by ships in emission control areas: A case study of the Yantian model in Shenzhen. *Ocean Engineering*, 237, 109652.
- Peymankar, M., Davari, M., & Ranjbar, M. (2021). Maximizing the expected net present value in a project with uncertain cash flows. *European Journal of Operational Research*, 294(2), 442–452.
- Premjiyani, H., Dwivedi, A., & Rana, H. (2024). Power Augmentation of Gas Turbine Using Exhaust Flue Gas Operated Vapor Absorption Machine. *International Research Journal on Advanced Engineering Hub (IRJAEH)*, 2(05), 1318–1326.
- Rini Oktavera. (2023). Payback Period. In A. Yanto (Ed.), *Ekonomi Teknik* (pp. 117–118). Get Press Indonesia.

- Ruan, X., Yao, M., Ke, Y., Zeng, Z., Zhu, L., Ren, J., Wang, C., & Zhang, W. (2024). Life-cycle Carbon Emission Assessment of the R744 and R1234yf for electric vehicle air conditioning systems. *2024 6th International Conference on Energy Systems and Electrical Power (ICESEP)*, 446–451.
- Samuel, S., & BK, J. N. (2013). Analisa Ekonomis Pembangunan Kapal Ikan Fiberglass Katamaran Untuk Nelayan Di Perairan Pantai Teluk Penyu Kabupaten Cilacap. *Kapal: Jurnal Ilmu Pengetahuan Dan Teknologi Kelautan*, 10(1), 22–29.
- Statista. (2024, July). *Average spot charter rate for a 160,000 cubic meter liquefied natural gas storage vessel worldwide from 2015 to 2023*. Statista. <https://www.statista.com/statistics/1112660/lng-tanker-average-spot-charter-rate/>
- Teflissi, R., & Ataei, A. (2013). Effect of temperature and gas flow on the efficiency of an air bottoming cycle. *Journal of Renewable and Sustainable Energy*, 5(2).
- Tian, X. L., Hu, S. G., Qin, H. B., Zhao, J., & Ran, L. Y. (2014). Energy consumption and energy saving research status of air compressor system. *Applied Mechanics and Materials*, 628, 225–228.
- Van, D., & Gerardo, D. (2014). Carbon dioxide as working fluid for medium and high-temperature concentrated solar thermal systems. *AIMS Energy*, 1(1), 99–115.
- Wan, C., Yan, X., Zhang, D., & Yang, Z. (2019). A novel policy making aid model for the development of LNG fuelled ships. *Transportation Research Part A: Policy and Practice*, 119, 29–44.
- Weber, T. A. (2014). On the (non-) equivalence of IRR and NPV. *Journal of Mathematical Economics*, 52, 25–39.
- Woo Gyeong. (2021). *Main Engine Jacket Water Preheater*. <https://www.komarine.com/>.

Wu, D., Wei, M., Tian, R., Zheng, S., & He, J. (2022). A review of flow and heat transfer characteristics of supercritical carbon dioxide under cooling conditions in energy and power systems. *Energies*, *15*(23), 8785.

Xiamen Yuda Chemical & Equipment Co, L. (1988). *Refrigeran Propane R290 Yang Digunakan Dalam Transportasi Refrigerasi*. <https://id.fluorined-chemical.com/refrigerants/propane-r290-refrigerant-used-in-transport.html>

Zakki, A. F., & Windyandari, A. (n.d.). Pengembangan Desain Kapal Lng Dengan Cargo Containment System Tipe Membran Bentuk Prismatik Sebagai Solusi Alternatif Kebutuhan Alat Transportasi Gas Alam Cair Di Indonesia. *Kapal: Jurnal Ilmu Pengetahuan Dan Teknologi Kelautan*, *11*(3), 132–143.